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KLRD1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50014

Basic Information

Catalog No.
RM50014

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
KLRD1

Species
Human

Gene ID
3824

Swiss Prot
Q13241

Synonyms
CD94; KLRD1

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Background

Natural killer (NK) cells are a distinct lineage of lymphocytes that mediate cytotoxic activity and secrete cytokines upon immune stimulation. Several genes of the C-type lectin superfamily, including members of the NKG2 family, are expressed by NK cells and may be involved in the regulation of NK cell function. KLRD1 (CD94) is an antigen preferentially expressed on NK cells and is classified as a type II membrane protein because it has an external C terminus. Several transcript variants encoding different isoforms have been found for this gene.

Product Information

Description
KLRD1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:56bp deletion in exon1
Allele-2:77bp deletion in exon1
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

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WT    TGCCAAGAAAAATG**********AAAGTCGGCATCT
Mut   TGCCAAGAAAAATG***Deletion***AAAGTCGGCATCT
Allele-1:    56bp deletion in exon4

WT    GACTCTGACTGCTG**********GTCGGCATCTCTGT
Mut   GACTCTGACTGCTG***Deletion***GTCGGCATCTCTGT
Allele-2:    77bp deletion in exon4
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Genome sequence analysis of PCR products from parental (WT) and KLRD1 knockout (KO) 293T cells, using sanger sequencing.